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COMMITTEE ON THE PEACEFUL USES OF
OUTER SPACE

INFORMATION FURNISHED IN CONFORMITY WITH THE CONVENTION ON REGISTRATION OF OBJECTS LAUNCHED INTO OUTER SPACE

Note verbale dated 17 January 1992 from the Permanent Representative of the United States of America to the United Nations addressed to the Secretary-General

The Permanent Representative of the United States of America to the United Nations presents his compliments to the Secretary-General and, in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space, has the honour to transmit the registration data for the United States space launches from January to October 1990.

The following report supplements the registration data for the United States launches as of 31 January 1990. All launches were made from the territory of the United States unless otherwise specified.

International designation	Date of launch	Nodal period	Inclination (deg)	Apogee (km)	Perigee (km)	General function
The following objects were launched since the last report and remain in orbit:						
1990-008A	24 January	706.2	54.8	20 110	19 671	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
1990-008B	24 January	102.6	35.7	1 311	453	"
1990-008C	24 January	355.4	37.7	20 311	172	"
1990-001D	1 January	614.1	21.6	34 807	299	"
1990-001F	1 January	341.4	26.7	19 281	306	"
1990-002C	9 January	276.8	27.2	15 061	324	"
1990-002B	9 January	1 436.0	3.4	36 309	35 261	Spacecraft engaged in research and exploration of the upper atmosphere or outer space
1990-005F	22 January	100.7	98.7	801	784	"
1990-005D	22 January	100.7	98.7	801	784	"
The following objects not previously reported have been identified since the last report:						
1963-014FB	9 May 1963	164.6	86.1	5 494	1 646	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
1963-038K	28 September 1963	107.0	89.9	1 118	1 054	"

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International designation	Date of launch	Nodal period	Inclination (deg)	Apogee (km)	Perigee (km)	General function
1967-001AS	11 January 1967	546.3	25.6	31 200	317	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
1977-065GD	14 July 1977	108.5	28.7	1 740	573	"

The following objects identified in a previous report are no longer in orbit, as of 2400Z 31 January 1990:

1965-021A
1971-012E
1969-082DE
1980-004B
1969-082KT

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The following report supplements the registration data for the United States launches as of 28 February 1990. All launches were made from the territory of the United States unless otherwise specified.

International designation	Date of launch	Nodal period	Inclination (deg)	Apogee (km)	Perigee (km)	General function
The following objects were launched since the last report and remain in orbit:						
1990-015A	14 February	95.5	43.1	551	532	Research and exploration of the upper atmosphere or outer space
1990-019A	28 February	89.3	62.0	240	236	Reusable space transportation systems
1990-015B	14 February	94.0	43.1	479	459	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
1990-015C	14 February	93.7	41.6	483	425	"
The following objects not previously reported have been identified since the last report but are no longer in orbit as of 2400Z on 28 February 1990:						
1963-014FC	9 May 1963	164.4	86.0	5 561	1 563	"
1963-014D	9 May 1963	164.5	86.0	5 565	1 570	"

The following objects identified in a previous report are no longer in orbit as of 2400Z on 28 February 1990:

1961-OMI 179
1961-OMI 272
1963-014BQ
1965-082 MG
1965-082 UN
1966-056 CJ
1978-026AQ
1978-026BB
1979-017LT
1984-011U

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The McDonnell Douglas Corporation has provided the following information for its launch of the Losat spacecraft on 14 February 1990:

LOSAT/DELTA 192 LAUNCH OBJECTS PLACED IN ORBIT

Parameter	Losat-L LACE spacecraft	Losat-R RME spacecraft	Delta second stage
1. International designator	1990-015A	1990-015B	1990-015C
2. Date and location of launch	14 February 1990 (045/1615:00.626Z) Eastern Test Range - Launch Complex 17		
3. Programmed orbital parameters:			
(i) Nodal period (min)	95.6	94.0	93.7
(ii) Inclination (deg)	43.1	43.1	41.6
(iii) Apogee (km)	551	480	484
4. General function	Evaluate laser beam distortion in atmosphere	Measure absolute intensity of low-energy laser beam	Launch second stage

The following report supplements the registration data for the United States launches as of 28 March 1990. All launches were made from the territory of the United States unless otherwise specified.

International designation	Date of launch	Nodal period	Inclination (deg)	Apogee (km)	Perigee (km)	General function
The following objects were launched since the last report and remain in orbit:						
1990-025A	26 March	355.0	37.6	20 289	170	Research and exploration of the upper atmosphere or outer space
1990-025B	26 March	91.8	30.2	541	186	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
1990-025C	26 March	354.3	37.5	20 246	168	"
The following objects achieved orbit since the last report, but are no longer in orbit as of 2400Z on 31 March 1990:						
1990-021B						Reusable space transportation systems
1990-019A						
The following objects identified in a previous report are no longer in orbit as of 2400Z on 31 March 1990:						
1963-014BQ						
1963-047U						
1965-082UN						
1965-082MG						
1969-082FL						
The following objects identified in a previous report are no longer in orbit as of 2400Z on 31 March 1990:						
1961-OMI 293						
1965-082MZ						
1972-058CL						
1977-065 EX						
1979-017 AQ						
1979-017 LG						
1982-058B						
1990-019A						

The following report supplements the registration data for the United States launches as of 30 April 1990. All launches were made from the territory of the United States unless otherwise specified.

International designation	Date of launch	Nodal period	Inclination (deg)	Apogee (km)	Perigee (km)	General function
The following objects were launched since the last report and remain in orbit:						
1990-028B	5 April	96.2	94.1	668	489	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
1990-028A	5 April	96.0	94.1	697	468	Research and exploration of the upper atmosphere or outer space
1990-034B	13 April	104.0	22.7	1 416	493	"
1990-034C	13 April	658.5	18.9	37 215	201	"
1990-037B	24 April	96.8	28.4	624	610	"
The following objects achieved orbit since the last report, but are no longer in orbit as of 2400Z on 30 April 1990:						
1990-037A	24 April	96.7	28.4	614	606	Reusable space transportation systems

The following objects identified in a previous report are no longer in orbit as of 2400Z on 30 April 1990:

1965-082CQ
1965-082LC
1966-005M
1986-019DL
1990-025B
1970-025LR

McDonnell Douglas Commercial Delta, Inc. (MDCI) has provided information for its launch of the Palapa B2R spacecraft on 13 April 1990. MDCI has included as part of this information the parameters for the Palapa B2R spacecraft which is the responsibility of SATTEL, a United States company, during initial on-orbit checkout, after which time the satellite will be turned over to PERMUTAL, an Indonesian government corporation:

PALAPA B2R/DELTA 194 LAUNCH OBJECTS PLACED IN ORBIT

Parameter	Palapa B2R spacecraft	Delta second stage (B2R/RB1)	Pam-D (B2R/RB2)
1. International designator	1990-034A	1990-034B	1990-034C
2. Date and location of launch	13 April 1990 (103/2227:59.719Z) Eastern Test Range - Launch Complex 17		
3. Programmed orbital parameters:			
(i) Nodal period (min)	1 436.0	104.3	665.4
(ii) Inclination (deg)	0.1	22.8	18.9
(iii) Apogee (km)	35 900	1 423	37 526
4. General function	Communication services for Indonesia, the Association of South-East Asian Nations (ASEAN), and Papua New Guinea	Launch vehicle, second stage	Launch vehicle, third stage

The following report supplements the registration data for the United States launches as of 30 May 1990. All launches were made from the territory of the United States unless otherwise specified.

International designation	Date of launch	Nodal period	Inclination (deg)	Apogee (km)	Perigee (km)	General function
The following objects were launched since the last report and remain in orbit:						
1990-043A	9 May	98.5	89.9	766	608	Research and exploration of the upper atmosphere or outer space
1990-043B	9 May	98.5	89.9	765	607	"
1990-043C	9 May	97.9	89.9	701	615	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
1990-043D	9 May	98.6	89.9	776	604	"
1990-043E	9 May	98.5	89.9	774	603	"
1990-043F	9 May	98.4	89.9	755	611	"
1990-043G	9 May	98.5	89.9	766	608	"
1990-043H	9 May	98.4	89.9	755	611	"
1990-043J	9 May	98.5	89.9	766	607	"
1990-019B	28 February	88.6	62.0	207	198	"

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The following report supplements the registration data for the United States launches as of 30 June 1990. All launches were made from the territory of the United States unless otherwise specified.

International designation	Date of launch	Nodal period	Inclination (deg)	Apogee (km)	Perigee (km)	General function
The following objects were launched since the last report and remain in orbit:						
1990-050A	8 June	90.0	61.0	284	268	Research and exploration of the upper atmosphere or outer space
1990-049B	1 June	94.8	52.5	558	454	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
1990-050B	8 June	-	-	-	-	-
1990-051B	12 June	90.7	27.3	369	247	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
1990-051C	12 June	697.2	27.2	39 209	123	"
1990-056C	23 June	683.7	24.7	38 379	280	"
1990-051A	12 June	1 426.3	0.2	35 811	35 768	Research and exploration of the upper atmosphere or outer space
The following objects identified in a previous report are no longer in orbit as of 2400Z on 30 June 1990:						
1965-065T						
1965-082AQ						
1983-041B						

The following report supplements the registration data for the United States launches as of 30 July 1990. All launches were made from the territory of the United States unless otherwise specified.

International designation	Date of launch	Nodal period	Inclination (deg)	Apogee (km)	Perigee (km)	General function
1990-065A	25 July	591.9	18.2	33 612	335	Research and exploration of the upper atmosphere or outer space
1990-065B	25 July	594.0	18.0	33 725	334	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
The following objects not previously reported have been identified since the last report:						
1967-001AT	11 January	536.0	27.2	30 385	573	"
1974-089FE	15 November	106.7	101.7	1 170	975	"
1974-089FF	15 November	105.0	102.0	1 355	636	"
1990-050C	8 June	-	-	-	-	-
1990-050D	8 June	-	-	-	-	-
The following objects identified in a previous report are no longer in orbit as of 2400Z on 31 July 1990:						
1969-082FK						
1969-082GC						
1990-051B						
1990-058B						
The following objects not previously reported have been identified since the last report:						
1963-014FE	9 May	167.7	84.9	6 052	852	
1990-043K	9 May	99.1	90.1	849	580	
1967-092J	25 September	103.4	89.2	944	896	
1967-001AT	11 January	-	-	-	-	

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The following information pertains to the Delta second stage and the Pam-D, which boosted the Insat 1-D into orbit, since these are the only objects from that launch for which the United States has the responsibility for registration:

LOSAT/DELTA 192 LAUNCH OBJECTS PLACED IN ORBIT

Parameter	Delta second stage (Insat-1D/RB1)	Delta (Insat-1D/RB2)
1. International designator	1990-051B	1990-051C
2. Date and location of launch	12 June 1990 (163/055200.301Z) Eastern Test Range - Launch Complex 17	
3. Programmed orbital parameters:		
(i) Nodal period (min)	91.4	707.8
(ii) Inclination (deg)	27.3	27.2
(iii) Apogee (km)	419	39 727
4. General function	Launch vehicle, second stage	Launch vehicle, third stage

The following information relating to Commercial Titan Launch No. 3 (Intelsat VI) is provided pursuant to 14 CFR Ch. 111 415.10.

STATE II*

International designator	1990-056B
Date and location of launch	23 June 1990 - 1119 GMT Cape Canaveral Air Force Station
Period (min)	89.1
Inclination (deg)	28.6
Apogee (km)	299
Perigee (km)	163

* Re-entry 26 June 1990.

The following report supplements the registration data for the United States launches as of 30 August 1990. All launches were made from the territory of the United States unless otherwise specified.

International designation	Date of launch	Nodal period	Inclination (deg)	Apogee (km)	Perigee (km)	General function
The following objects were launched since the last report and remain in orbit:						
1990-068A	2 August	356.7	37.7	20 410	157	Research and exploration of the upper atmosphere or outer space
1990-068B	2 August	91.9	30.1	549	189	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
1990-074C	18 August	672.8	20.7	37 607	506	"
1990-068C	2 August	355.9	37.7	20 536	156	"
1990-043L	9 May	97.8	89.7	699	611	"
1990-074B	18 August	102.9	24.8	1 313	479	"
1990-068A	2 August	718.0	54.7	20 451	19 940	Research and exploration of the upper atmosphere or outer space
1990-068C	2 August	342.5	37.6	19 525	150	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
1990-074B	18 August	102.9	24.8	1 312	479	"
1990-074C	18 August	672.8	20.7	37 607	506	"

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International designation	Date of launch	Nodal period	Inclination (deg)	Apogee (km)	Perigee (km)	General function
The following objects not previously reported have been identified since the last report:						
1990-068B	2 August	30.1	86.1	96	87	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects

The following objects identified in a previous report are no longer in orbit as of 2400Z on 31 August 1990:

1961-OM1277
1963-022A
1966-056E
1969-082GL
1970-025BH
1970-025CY
1972-058AN
1974-089FF
1977-065 BL
1977-108C
1989-097C
1990-068B

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The following report supplements the registration data for the United States launches as of 30 September 1990. All launches were made from the territory of the United States unless otherwise specified.

International designation	Date of launch	Nodal period	Inclination (deg)	Apogee (km)	Perigee (km)	General function
The following objects were launched since the last report and remain in orbit:						
None						
The following objects not previously reported have been identified since the last report:						
1977-048G	16 June	1 431.6	10.0	36 595	34 803	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
1978-062D	16 June	1 431.1	9.3	40 091	32 069	"
1990-065C	25 July	591.7	18.3	33 588	347	"
The following objects identified on a previous report are no longer in orbit as of 2400Z on 30 September 1990:						
1965-082LW						
1965-082MS						
1969-082DD						
1974-089FL						
1975-004C						
1975-004GA						
1975-004GL						

McDonnell Douglas Corporation has provided information pertaining to the Delta second stage and the Pam-D, which boosted the BSB-R-2 into orbit:

Parameter	Delta second stage (B2R/RB1)	Pam-D (BSB-R2/R2B)
1. International designator	1990-074B	1990-074C
2. Date and location of launch	18 August 1990 (230/0041:59:891Z) Eastern Test Range - Launch Complex 17	
3. Programmed orbital parameters:		
(i) Nodal period (min)	102.9	672.9
(ii) Inclination (deg)	24.8	20.7
(iii) Apogee (km)	1 313	37 609
4. General function	Launch vehicle, second stage	Launch vehicle, third stage

The following report supplements the registration data for the United States launches as of 30 October 1990. All launches were made from the territory of the United States unless otherwise specified.

International designation	Date of launch	Nodal period	Inclination (deg)	Apogee (km)	Perigee (km)	General function
The following objects were launched since the last report and remain in orbit:						
1990-088A	1 October	717.9	54.9	20 408	19 980	Research and exploration of the upper atmosphere or outer space
1990-090B	6 October	90.1	28.4	300	285	"
1990-091A	12 October	520.4	0.1	31 398	339	"
1990-091B	12 October	520.4	0.1	31 398	339	"
1990-088C	1 October	345.3	37.5	19 575	183	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
1990-090C	6 October	563.7	28.5	31 398	321	"
1990-090D	6 October	100.1	24.7	1 171	378	"
1990-090E	6 October	-	-	-	-	-
1990-093B	30 October	-	-	-	-	-
1990-093C	30 October	644.8	23.5	36 331	197	-
The following objects not previuosly reported have been identified since the last report:						
1965-098K	1 October	-	-	-	-	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
1975-011F	6 February	-	-	-	-	"

The following report supplements the registration data for the United States launches as of 30 October 1990. All launches were made from the territory of the United States unless otherwise specified.

International designation	Date of launch	Nodal period	Inclination (deg)	Apogee (km)	Perigee (km)	General function
The following objects not previously reported have been identified since the last report but are no longer in orbit as of 2400Z on 31 October 1990:						
1990-088B	1 October	85.5	30.8	111	16	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
The following objects achieved orbit since the last report but are no longer in orbit as of 2400Z on 31 October 1990:						
1990-090A	6 October	90.1	28.4	298	283	Reusable space transportation systems

The following objects identified in a previous report are no longer in orbit as of 2400Z on 31 October 1990:

1961-OMI 217
1963-054B
1965-082 EZ
1977-065J
1977-065GC
1978-026BV
1990-088B